

Date: Tue, 22 Feb 94 04:30:43 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #38  
To: Ham-Homebrew

Ham-Homebrew Digest                      Tue, 22 Feb 94                      Volume 94 : Issue    38

Today's Topics:

    Advice, please, re 12V Battery Supply in Shack (2 msgs)  
        homebrew SSB xtal filters  
    Homemade balun, unknown toroid material. Help!  
        Laser jammer wanted  
    Looking for Motorola VHF power transistor sources  
        Need mic wiring info for Icom W2A...  
        Subscribe?  
        What test equipment do you use?

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 21 Feb 1994 04:19:20 GMT  
From: netcomsv!netcomsv!bongo!julian@decwrl.dec.com  
Subject: Advice, please, re 12V Battery Supply in Shack  
To: ham-homebrew@ucsd.edu

In article <F9N3Hc1w165w@ham.almanac.bc.ca> emd@ham.almanac.bc.ca writes:  
>

    Battery stuff:

>The question is the best way to keep the battery adequately charged  
>without over-charging it - I'm not sure merely connecting a DC power  
>supply to the battery is a very good answer.  
>  
>Suggestions as to the best method to both power the equipment AND keep  
>the battery from deteriorating would be appreciated.

This whole subject was very well covered in a series of articles in that evil cultist rag QST.

See "Practical Battery-Back-Up Power fro Amateur Radio Stations - Part 1, 2, 3." March, April, May 1990.

Brian Kantor posted a good writeup on lead acid batteries on 28 May 1992. I have a copy and will mail it to the original poster or anyone else who wants a copy.

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Julian Macassey, N6ARE julian@bongo.tele.com Voice: (310) 659-3366  
Paper Mail: Apt 225, 975 Hancock Ave, West Hollywood, California 90069-4074

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Date: Sun, 20 Feb 94 16:51:26 PST  
From: nntp.cs.ubc.ca!mala.bc.ca!oneb!ham!emd@beaver.cs.washington.edu  
Subject: Advice, please, re 12V Battery Supply in Shack  
To: ham-homebrew@ucsd.edu

I'm planning to resurrect my ham shack this spring (other projects and illness have delayed it ).

I have a number of items in the shack I want to power off a 12 V battery - including a VHF 10 W radio, a UHF 10 W radio, a small 12 V TV, a packet TNC and a desk lamp.

A separate 12 V battery will supply power to a TS-820S as backup for power failure, which happens fairly often around here. (Using the same battery for both purposes is out, as the 820 DC power supply puts a heavy ripple on the battery when in use).

The question is the best way to keep the battery adequately charged without over-charging it - I'm not sure merely connecting a DC power supply to the battery is a very good answer.

Suggestions as to the best method to both power the equipment AND keep the battery from deteriorating would be appreciated.

Tnx, Bob, VE7EMD

Robert Smits  
VE7EMD  
Ladsmith B.C.

There is \*no\* idiotproof filter.  
Idiots are proof against anything!  
- Richard Chycoski, VE7CVS

e-mail: emd@ham.almanac.bc.ca

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Date: Wed, 16 Feb 1994 10:45:44 GMT  
From: agate!howland.reston.ans.net!EU.net!uknet!dcl-cs!ega066@network.ucsd.edu  
Subject: homebrew SSB xtal filters  
To: ham-homebrew@ucsd.edu

If you are considering building an SSB xtal filter it's well worth looking at the article by W7ZOI on Cohn xtal filters. It appears in 'QRP Classics', and is a reprint from QST. Although I've only built CW filters based on this approach, SSB filters can easily be realised also, and I would think that a filter with 3 or 4 xtals would satisfy your requirement. It probably doesn't matter too much on the make, as long as all the crystals are quite well matched in frequency ( to within 10 percent of the filter passband is a good rule).

73  
Simon G0GWA.

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Date: Mon, 21 Feb 1994 06:00:02 GMT  
From: wintermute.fullerton.edu!ihnp4.ucsd.edu!sdd.hp.com!caen!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: Homemade balun, unknown toroid material. Help!  
To: ham-homebrew@ucsd.edu

asirene@ntuvax.ntu.ac.sg (asirene@ntuvax.ntu.ac.sg) wrote:

: I just made a 1:1 current balun for use at the feed point of my  
: 20 meter dipole fed from a RG-58. The problem us is that the toroid  
: I used was unmarked so I do not know the actual effect of the "balun".  
: Is there a way to test the balun? Or should I eliminate it  
: altogether. What kind of effect will the balun (with ot without)  
: have on my transmission and reception?

I assume you made the balun by wrapping your coax a number of times through the toroid core. You would get some balun action even if the core had no magnetic properties whatever. In fact, some people habitually make "air baluns" by simply winding several turns of coax in a loop. I wouldn't worry too much about it -- it can't hurt and it probably is giving you at least some balun action.

AL N1AL

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Date: Mon, 21 Feb 1994 02:31:15 GMT  
From: netcomsv!netcom.com!nagle@decwrl.dec.com  
Subject: Laser jammer wanted  
To: ham-homebrew@ucsd.edu

st3a5@jane.uh.edu (John, Dawn V) writes:

>Does anyone have any information regarding the building of speed-detector jamm-  
>ers ? If so please post or send me message by email.  
>Later,  
>Dvj

This belongs in alt.rec.speeding.

John Nagle

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Date: Mon, 21 Feb 1994 23:10:25 GMT  
From: rit!isc-newsserver!ultb!jdc3538@cs.rochester.edu  
Subject: Looking for Motorola VHF power transistor sources  
To: ham-homebrew@ucsd.edu

I'm looking for some Motorola VHF power transistors (MRF240/A and others). The only catalog I found them in is from a company that is no longer in business. Any suggestions? I looked in the mailorder list from ftp.cs.buffalo.edu, but nothing looked promising.

73...Jim  
N2VNO

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Date: Mon, 21 Feb 1994 08:05:28 GMT  
From: wintermute.fullerton.edu!ihnp4.ucsd.edu!sdd.hp.com!cs.utexas.edu!  
howland.reston.ans.net!agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!  
linley@network.ucsd.edu  
Subject: Need mic wiring info for Icom W2A...  
To: ham-homebrew@ucsd.edu

Could someone provide a wiring diagram for the combination speaker/mic jack on an Icom W2A HT? I don't see how they can fit a speaker, mic, and a PTT switch into a 3 terminal jack unless some trickery closes PTT when the mic key shorts the speaker line. Many thanks in advance.

--  
Bruce James Robert Linley ---- linley@netcom.com ---- Amateur radio: KE6EQZ

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Date: 21 Feb 94 00:22:50 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Subscribe?  
To: ham-homebrew@ucsd.edu

Found this list via a crosspost to qrp@think.com. I'm interested! As this is the only address I have, could someone subscribe me or send me subscription info?

Thanks

John K0JD

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\* Freddie 1.2.5 \* "Aaaaaahhhhhh.....Baaaaach!" -- Radar O'Reilly

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Date: Mon, 21 Feb 1994 13:08:19 GMT  
From: elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!hplextra!hplb!hpwin052!hpqmoea!dstock@ames.arpa  
Subject: What test equipment do you use?  
To: ham-homebrew@ucsd.edu

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

: Use this \*now\* David. Take scope pictures of all your antennas while  
: they're working. You can then pulse the line anytime you wonder if  
: something has gone sour. If the traces don't match, it has. Otherwise  
: you've saved yourself a trip up the tower.

: Gary

A very, very sound suggestion, but I'm in one of those ALL external antennae banned areas. My HF doublet is on a halliard, and the 2m thing is in the attic. I can get at all of them in under 2 minutes. The guys with the big rotating towers and the stacked monobanders \*really\* need a TDR.

Nice for checking cables, even if there is a corroded region away from the ends, this thing will spot them and measure their location.

Cheers

David

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Date: Mon, 21 Feb 1994 14:41:00 GMT  
From: agate!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!utcsri!newsflash.concordia.ca!pavo.concordia.ca!md\_hill@ames.arpa  
To: ham-homebrew@ucsd.edu

References <CLEK91.CA6@srngenprp.sr.hp.com>, <CLFFLF.G3v@hpqmoea.sqf.hp.com>,  
<1994Feb20.161304.17180@ke4zv.atl.ga.us>ash.co  
Subject : Re: What test equipment do you use?

In article <1994Feb20.161304.17180@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us (Gary Coffman) writes...

>In article <CLFFLF.G3v@hpqmoea.sqf.hp.com> dstock@hpqmoca.sqf.hp.com (David Stockton) writes:

>> TDR (Time Domain Reflectometer) Well, it was on this stall at a  
>>rally, and the bloke wanted 35 pounds, it proved 100% working when I got  
>>it home. This device is best described as an in-cable radar set, used  
>>to test transmission lines and connectors. It fires a pulse down the  
>>line and plots a trace of reflection voltage versus time so you can  
>>measure exactly how bad a mismatch is, and measure just how far down the  
>>line it is. It's nice to know I've got one, should I ever need it, but I  
>>must confess I've not (yet) used it in anger. The name alone frightens  
>>people, they seem to always be sold at "for the parts" prices. If people  
>>stick pins in your co-ax, then you NEED one of these...

>

>Use this \*now\* David. Take scope pictures of all your antennas while  
>they're working. You can then pulse the line anytime you wonder if  
>something has gone sour. If the traces don't match, it has. Otherwise  
>you've saved yourself a trip up the tower.

>

Great idea. Anyone who wishes that they had such a piece of equipment can build one for next to nothing. The ARRL handbook page 27-31 (year 199?) has a great little circuit that works very well. One drawback is that for it to be useful for the lengths of coax that amateurs usually use (i.e. around 50ft) then you NEED a scope with a bandwidth of 50MHz or more.

Enjoy

-Mark Hillier           Internet: MD\_HILL@pavo.concordia.ca

Amateur: VE2HVV

PACKET: VE2HVV@VE2FKB

" I hear, I forget. I see, I remember. I do, I understand"

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Date: 22 Feb 1994 09:29:08 GMT

From: agate!howland.reston.ans.net!wupost!bigfoot.wustl.edu!jlwei@network.ucsd.edu

To: ham-homebrew@ucsd.edu

References <17FEB199422343126@jane.uh.edu>, <nagleCLJz03.27B@netcom.com>, <dwalster.80.00152F8A@lincoln.gpsemi.com>

Subject : Re: Laser jammer wanted

Dave Walster (dwalster@lincoln.gpsemi.com) wrote:

: nagle@netcom.com (John Nagle) writes:

: > This belongs in alt.rec.speeding.

: Is the .rec. short for reckless?

: Dave.

maybe so, but what are the chances anybody \*there\* will know how to build one?

jesse.

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End of Ham-Homebrew Digest V94 #38

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